

PATENT ABSTRACTS OF JAPAN

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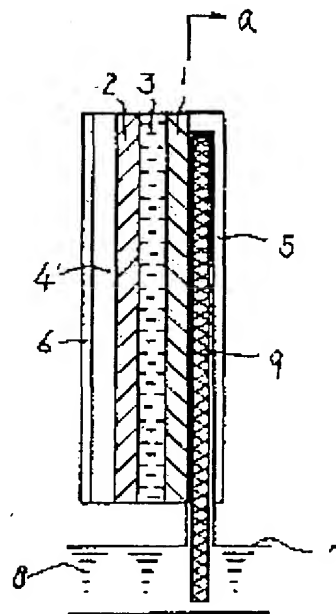
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(54) LIQUID FUEL CELL

(57)Abstract:

PURPOSE: To alleviate the restriction to the attitude of a liquid fuel cell and enable it to be used on a slant by bringing a capillary material into contact with the current-collector-side surface of the anode and immersing one end of the capillary material in liquid fuel.

CONSTITUTION: An anode 1 and a cathode 2 which is made by applying an electrode catalyst to one surface of a porous carbon plate before it is sintered, are assembled facing each other with an electrolyte 3 interposed. An oxidant 4 and a cathodic current collector 6 are installed over the surface of the cathode 2 to which the electrode catalyst is not applied. A capillary material 9 is brought into contact with the anodic-current-collector-5-side surface of the anode 1 up to the level sufficient for a liquid fuel 8 to reach the top end of the anode 1. One end of the capillary material 9 is immersed in the fuel 8 contained in a fuel storage chamber 7. A liquid fuel cell constituted in such a manner greatly alleviates the restriction to its attitude and can be used at a considerable slant.



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